Map symbol	Depth		Effective			Gypsum	Salinity	Sodium
and soil name		exchange		reaction		ļ		adsorp-
	I	capacity	capacity	1	ate	I		tion ratio
			Capacity	 		l I		Latio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	_
B2:			1			1		
Union	0-5	6.0-16		5.6-6.5				
	5-30		14-24	4.5-5.5				
	30-51		8.0-18	3.6-5.0				
	51-60		20-40	4.5-6.0				
C2:			1					
Union	0-5	6.0-16		5.6-6.5				
	5-30		14-24	4.5-5.5				
	30-51		8.0-18	3.6-5.0				
	51-60		20-40	4.5-6.0				
D2:			 					
Union	0-5	6.0-16		5.6-6.5				
	5-30		14-24	4.5-5.5				
	30-51		8.0-18	3.6-5.0				
	51-60		20-40	4.5-6.0				
D:			 					
Goss	0-4	6.0-16		4.5-6.5	0	0	0	0
	4-20		10-16	4.5-6.0	0	0	0	1 0
	20-60		20-40	4.5-6.0	0	0	0	0
F:	 		I I	 		 		
Goss	i 0-3	6.0-16	i	4.5-6.5	0 1	0 i	0	, j 0
	3-21		10-16	4.5-6.0	. 0 1	0 [0	j 0
	21-60		20-40	4.5-6.0	. 0 !	0 i	0	i O

Map symbol and soil name	Depth 	Cation exchange capacity	cation	reaction 		Gypsum 	Salinity	Sodium adsorp- tion ratio
		<u>meq/100 g</u>	 meq/100 g	 pH	 Pct	 Pct	mmhos/cm	_ [
} :			 	 				
Twomile	0-12	6.0-12	· 	4.5-7.3	· i	;		
	12-18			3.6-6.0	i i	i		·
	18-30		6.0-12	3.6-6.0	i i			
	30-53		12-22	3.6-6.5				
	53-60	6.0-22		4.5-7.3				
SB:								
Hartville	I -I 0-8	1 10-16	l ———	1 4.5-7.3	1 0 1	0 1	0	1 0
narcville	0-6 8-17			4.5-7.3		0 1	0	1 0
	1 17-60	•		4.5-6.5	1 0 1	0 1	0	1 0
			i I		i	i	-	
C:	i	İ	İ	I	i i	i		i
Hartville	- 0 - 8	10-16		4.5-7.3	0	0	0	0
	8-17	12-20		4.5-6.5	0	0	0	0
	17-60	18-30		4.5-6.5	0	0	0	1 0
B:								
Bucklick	·I 0-6	1 10-17	I	1 4.5-7.3			0	1 0
Duckiick	1 6-34	•		1 4.5-7.3			0	1 0
	1 34-50	•		5.1-7.3			0	1 0
	1 50-54	•		3.1 7.3				
	1		1		i i	i		
C:	i	İ	i I		i i	i		i
Bucklick	0-6	10-17		4.5-7.3	i	i	0	0
	6-34	18-23		4.5-7.3	i i	i	0	0
	34-50	18-23	i	5.1-7.3	i i	i	0	0
	50-54	•			i i	i		

Map symbol and soil name	 Depth 	Cation exchange capacity 		reaction 		Gypsum - 	Salinity	 Sodium adsorp- tion ratio
	 In	meq/100 g	 meq/100 g	 pH	Pct	Pct	mmhos/cm	_
6D:	 	[[
Bucklick	0-6 6-34 34-50	10-17 18-23 18-23	 	4.5-7.3 4.5-7.3 5.1-7.3		 	0 0 0	0 0 0
	50-54							
6E: Bucklick	 0-6 6-34 34-50 50-54	 10-17 18-23 18-23 	 	 4.5-7.3 4.5-7.3 5.1-7.3 	i i	 	0 0 0 	 0 0 0
6F:	 	 	 	 				
Bucklick	0-9 9-34 34-45 45-49	10-17 18-23 18-23 	 	4.5-7.3 4.5-7.3 5.1-7.3 	i i	 	0 0 0 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Gatewood	0-10 10-24 24-28 28-32	8.0-16 30-44 30-44 	 	5.1-7.3 5.1-7.3 6.1-7.8	0 1	0 0 0 	0 0 0 	0 0 0
7B:	 	 	 	 				
Menfro	0-6 6-10 10-54 54-72	10-16 15-20 15-20 5.0-10	 	5.1-7.3 5.1-7.3 5.1-7.3 5.6-7.3		 	 	

Map symbol and soil name	Depth	Cation exchange capacity		Soil reaction 		Gypsum 	Salinity	Sodium adsorp- tion ratio
			 	 				Tacio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
7C2:				 		 		
Menfro	- 1 0-6	10-16		5.1-7.3	· i	i		·
	6-10	15-20	i	5.1-7.3		i		·
	10-54	15-20		5.1-7.3		i		·
	54-72	5.0-10		5.6-7.3	i i	i		·
'D2:				 				
Menfro	-1 0-6	10-16		 5.1-7.3				
Mentio	6-10	15-20		5.1-7.3	1 1	I		
	1 10-54	15-20		5.1-7.3		I		
	54-72	5.0-10		5.6-7.3				
100						ļ		
'E2: Menfro	 - 0-6	10-16		 5.1-7.3				
Melilio	6-10	15-20		5.1-7.3				
	1 10-54	15-20		5.1-7.3	1 1	'		
	54-72	5.0-10		5.6-7.3				
						ļ		
F:	-I 0-6	10-16		 5.1-7.3		I		
Menfro	-	15-20		5.1-7.3				
	1 10-54	15-20		5.1-7.3	1 1			
	54-72	5.0-10		5.1-7.3				
_	1	1				İ		!
BB:		1				 	•	l
Crider	•			5.1-7.3		<u> </u>	0	
	7-62			5.1-7.3			0	
C2:								i
Crider	- i 0-7			5.1-7.3		i	0	
	7-62	i		5.1-7.3	1	i	0	ı

Franklin County, Missouri Chemical Properties of the Soils

Map symbol and soil name	 Depth 	capacity	 Effective cation exchange capacity	reaction 		Gypsum	Salinity 	Sodium adsorp- tion ratio
	 In 	meq/100 g	 meq/100 g	 pH 	Pct	Pct	mmhos/cm	-
8D2: Crider	 0-7 7-62	 	 	 5.1-7.3 5.1-7.3		 	 	
8E: Crider	 0-7 7-62	 	 	 5.1-7.3 5.1-7.3			0	
10F: Gasconade	0-6 6-15 15-19	 15-22 15-30 	 	6.1-7.8 6.1-7.8		0 0 	0 0 	0 0
Rock outcrop	 		 	 				
12: Bremer	 0-24 24-60	 36-41 36-41	 	 5.6-7.3 5.6-6.5		0 0	0 0 0	0 0
13A: Auxvasse	 0-17 17-32 32-60	•	 	 4.5-7.3 4.5-7.8 4.5-7.8		0 0 0	0 0 0 0	
14C: Hobson	 0-8 8-22 22-60	 8.0-15 	•	 4.5-7.3 4.5-5.5 4.5-5.5		0 0 0	0 0 0 0	 0 0 0

Map symbol and soil name	Depth	exchange capacity	Effective cation exchange capacity	reaction 		Gypsum 	Salinity	Sodium adsorp- tion ratio
	 In	meq/100 g	 meq/100 g	 рН	Pct	Pct	mmhos/cm	
.4D:			 	 				
Hobson	I 0-8	8.0-15		4.5-7.3	1 0 1	0 1	0	1 0
	8-22		12-18	4.5-5.5		0 1	0	1 0
	22-60		10-16	4.5-5.5	0 1	0	0	0
			I	I				1
.5:						I		
Gladden	0-7		10-25	4.5-6.0	0	0	0	1 0
	7-12		•	4.5-6.0	0	0	0	1 0
	12-32		•	4.5-6.0	0	0	0	1 0
	32-60		3.0-12	4.5-6.0	0	0	0	0
Midco	l l 0-7	6.0-12		 5.6-6.5	1 0 1	0 1	0	I I 0
FILGEO	7-60	3.0-15		5.1-7.3		0 1	0	1 0
İ			i			j		i
.6 :						I		
Blake	0-8	25-35		7.4-8.4	5-30	0	0	1 0
	8-20	20-30		7.4-8.4	5-30	0	0	1 0
I	20-60	10-20		7.4-8.4	5-30	0	0	1 0
Waldron	l I 0-6	30-40		 6.6-7.8	1 0 1		0	
waldron	0-6 6-60	25-37		7.4-8.4		0	0	0 0
	1 0-00 I	23-37	1	/.4-0.4	1 0 1	0 1	U	1 0
.7 :						, 		i I
Hodge	0-10	3.0-10	·	6.6-7.8	5-10	0 1	0	i o
	10-60	3.0-9.0		6.6-7.8		0	Ö	0
i			I	I		i I		1
Blake	0-8	25-35		7.4-8.4		0	0	1 0
	8-20	20-30		7.4-8.4	5-30	0	0	1 0
	20-60	10-20		7.4-8.4	5-30	0 1	0	1 0

Franklin County, Missouri Chemical Properties of the Soils

Map symbol and soil name	Depth	Cation exchange capacity 		 Soil reaction 		Gypsum 	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	 pH	Pct	Pct	mmhos/cm	- ¦
19:	 		1	 				
Haynie	0-8	15-20		6.6-8.4	0-25	0	0	1 0
-	8-60	15-20		7.4-8.4		0	0	0
Waldron	l I 0-7	30-40		 6.6-7.8	1 0 1	0 1	0	 0
Walalon	7-60	25-37		7.4-8.4	0 1	0	0	0
			[I		1
20: Hodge	l I 0-6	3.0-10		 6.6-7.8	5-10	0 1	0	I I 0
nouge	6-60	3.0-9.0		6.6-7.8		0	0	1 0
		I	ĺ			l		ĺ
Haynie	0-8 8-60	15-20 15-20		6.6-8.4 7.4-8.4		0	0	0 0
	0-00 	15-20	 	/.4-0.4	3-30	U I	U	1 0
22:		İ	İ		i i	i		İ
Waldron	0-9	30-40		6.6-7.8	0	0	0	0
	9-60	25-37		7.4-8.4	0	0	0	0
Booker	0-14	30-45	· 	5.6-7.3	·			
	14-60	40-60		5.6-7.3				
23C2:	 		 	 				
Winfield	0-5	10-15		5.6-7.3				
	5-9	12-17		5.6-7.3				
	9-48	13-18		4.5-6.5				
	48-67	10-14		5.1-6.5				

Map symbol and soil name	Depth 	Cation exchange capacity	cation	Soil reaction		Gypsum 	Salinity	Sodium adsorp- tion
		 	capacity		ate			ratio
	-¦ In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
23D2:								
Winfield		10-15		5.6-7.3				
	5-9	12-17		5.6-7.3				
	9-48	13-18		4.5-6.5				
	48-67	10-14		5.1-6.5				
24E:			 					
Gatewood	- 0-9	8.0-16		5.1-7.3	0 1	0 [0	0
	9-24	30-44		5.1-7.3	0 1	0 [0	0
	24-29	30-44		6.1-7.8	0	0	0	0
	29-33							
25E:			 	 				
Beemont	- 0-2	· 		4.5-6.5	0 1	0	0	i o
2000170	2-17	· 	·	3.6-6.0	0 1	0	0	1 0
	17-36	· 	·	4.5-5.5	0 1	0 1	0	i 0
	36-52	·	·	1 4.5-5.5	0 1	0 1	0	i 0
	52-56	i	·		i i			
29F :			1	1				
Menfro	- 0-10	10-16		5.1-7.3				
11011220	1 10-14	15-20		5.1-7.3		;		·
	1 14-45	15-20		5.1-7.3				i
	45-60	5.0-10		5.6-7.3				,
Bardley	 - 0-8	8.0-14		4.5-6.5	1 0 1	0 1	0	I I 0
Daratey	8-30	30-42		1 4.5-6.5		0 1	0	1 0
	1 30-34	1						

Map symbol and soil name	 Depth 	 Cation exchange capacity 		 Soil reaction 	 Calcium carbon- ate 		Salinity 	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
31: Pits	 	 	 	 	 	 		
Udorthents		 		 			 	
32: Pits	 	 	 	 				
36F: Bardley	 0-2 2-7 7-33 33-43	 10-16 13-19 25-40 	 	 4.5-6.5 4.5-6.5 4.5-7.3 		0 0 0	0 0 0 0 	 0 0 0
38A: Haymond	 0-4 4-60	 4.0-15 4.0-15	 	 5.6-7.8 5.6-7.8	 	0	 0 0	 0 0
Riverwash	 0-6 6-60	 	 	 			 0 0	
39: Haymond	 0-10 10-60	 4.0-15 4.0-15	 	 5.6-7.8 5.6-7.8		0	0 0	 0 0
40A: Racoon	 0-12 12-32 32-60	 14-20 11-16 	 17-23	 4.5-7.3 4.5-7.3 4.5-5.5		0 0 0	0 0 0	 0 0

Map symbol and soil name	 Depth 			reaction 		 Gypsum 	Salinity	 Sodium adsorp- tion ratio
	In	meq/100 g	 meq/100 g		Pct	Pct	mmhos/cm	_
43:				 				
Cedargap	0-12 12-36 36-60	•	 	5.6-7.3 5.6-7.3 5.6-7.3	0	0 0 0	0 0 0	0 0 0
44:	 			 				
Gladden	0-7 7-12 12-32 32-60	 	6.0-12 6.0-12	4.5-6.0 4.5-6.0 4.5-6.0 4.5-6.0	0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
45: Pope	0-12 12-60	 	 	 3.6-6.0 3.6-5.5		 	0 0	
46F: Lily	 0-7 7-29 29-33	 		 3.6-5.5 3.6-5.5 		0 0 0	0 0 	 0 0
Holstein	 0-9 9-18 18-51 51-65	 	 	 5.6-6.5 5.1-6.0 4.5-6.0 4.5-6.0		0 0 0 0	0 0 0 0	 0 0 0
Ramsey	 0-6 6-16 16-20	 	 	 4.5-5.5 4.5-5.5 		 	0 0 	

Map symbol	 Depth	Cation	 Effective	Soil	Calcium	Gypsum	Salinity	Sodium
and soil name		exchange		reaction		271-23		adsorp-
			exchange	1	l ate l	i		tion
			capacity	I	i i			ratio
		İ	. 1 1	I	i i			İ
	In	meq/100 g	meq/100 g	РН	Pct	Pct	mmhos/cm	
47D:	 		 					
Hobson	0-7	8.0-15		4.5-7.3	0 1	0	0	1 0
	7-23		12-18	4.5-5.5	0 1	0	0	0
	23-44		10-16	4.5-5.5	0	0	0	0
	44-60		15-35	4.5-5.5	0	0	0	0
Lily	I I 0-8		 3.0-8.0	3.6-5.5	1 0 1	0	l I 0	1 0
	8-28	· 	7.0-13	3.6-5.5	0 1	0	0	i 0
	28-32				i i			
Ramsey	l I 0-6		 	4.5-5.5			0	
1	6 - 15			4.5-5.5	· i		I 0	·
	15-19				i i			·
AED:	 		 	 				
Orthent		·			i i			·
M-W:	 		 					
Water					ļ į			
√:	 		 	 				
Water								·
			l					1
	l	l	l	l	11			_1